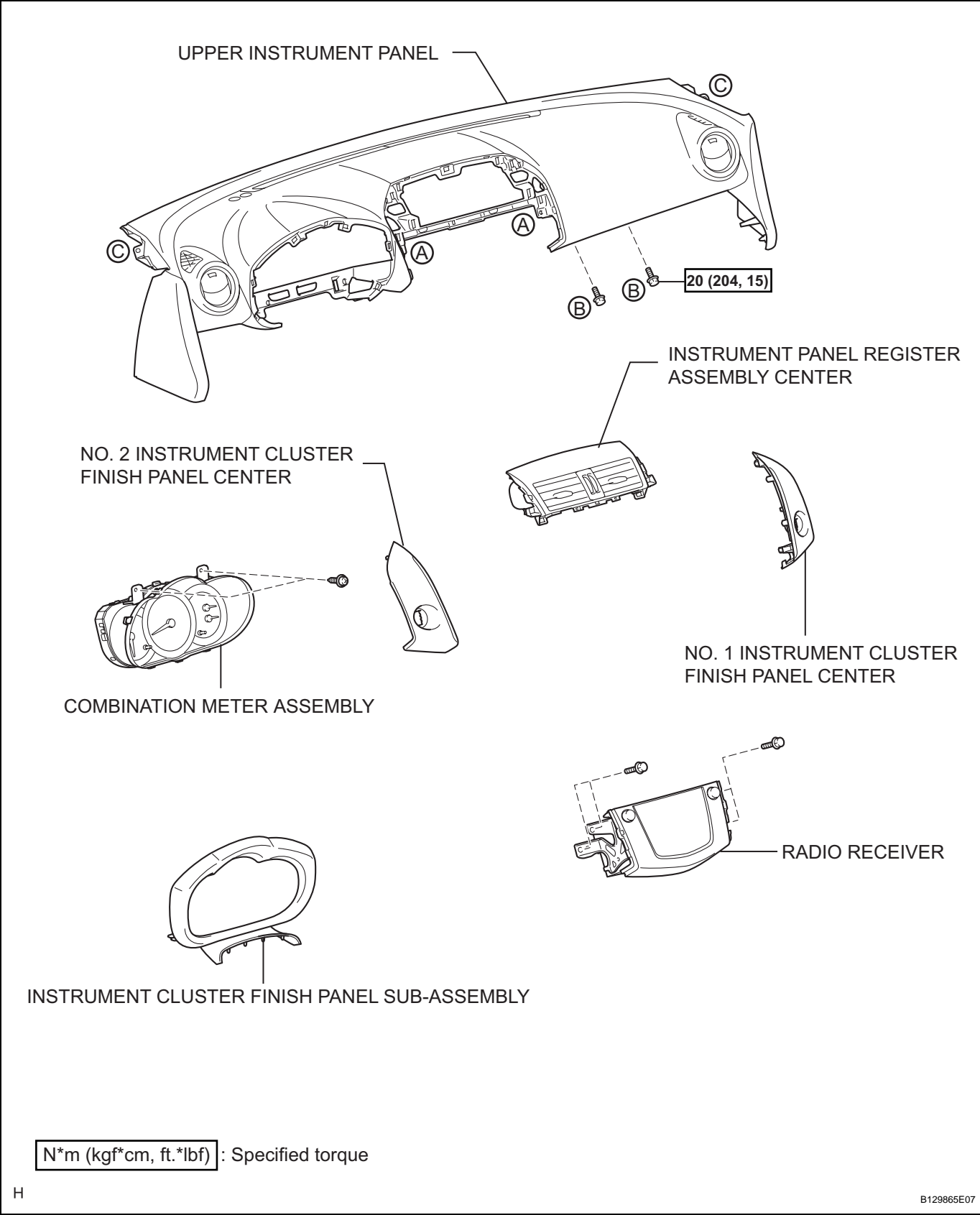
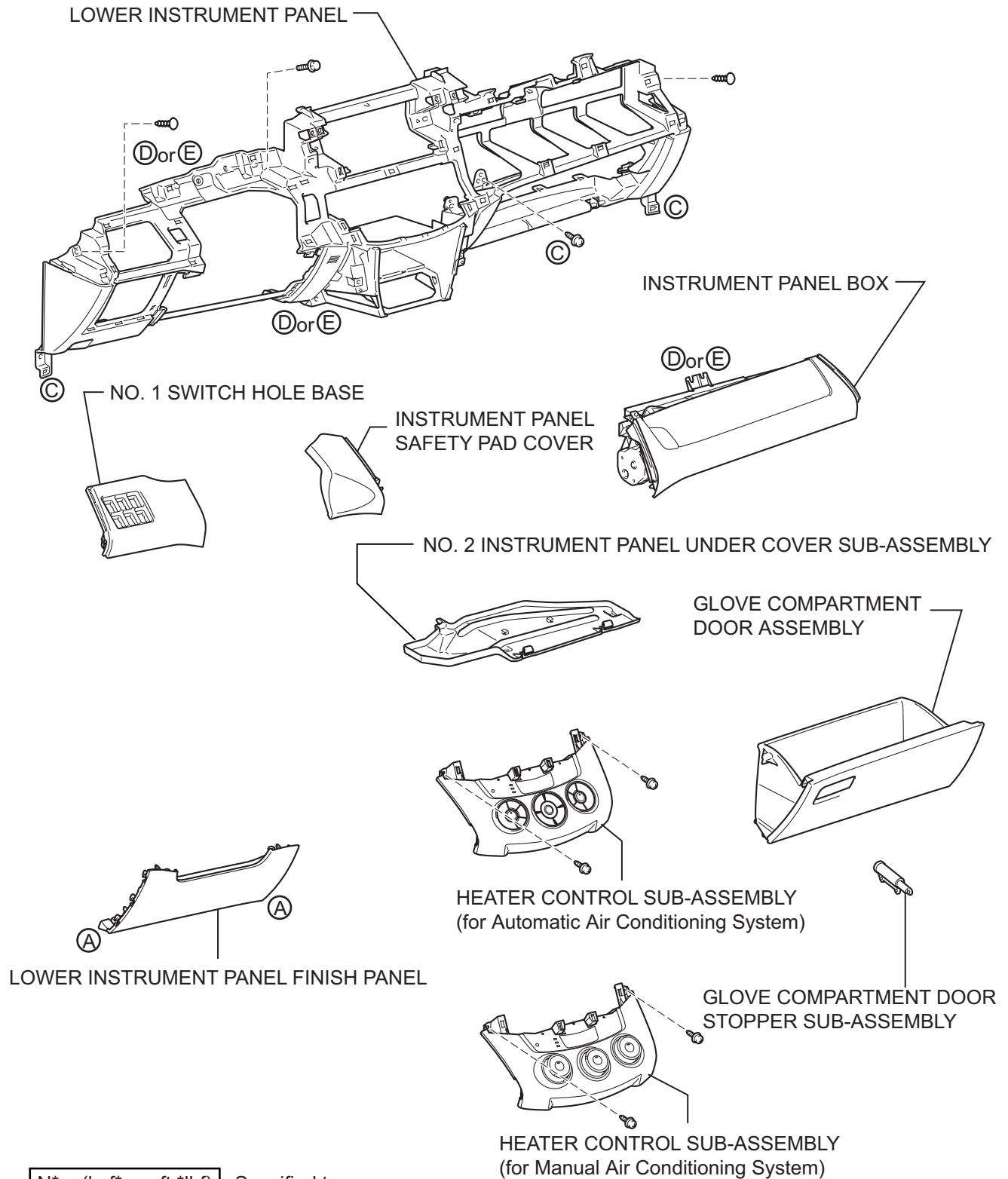


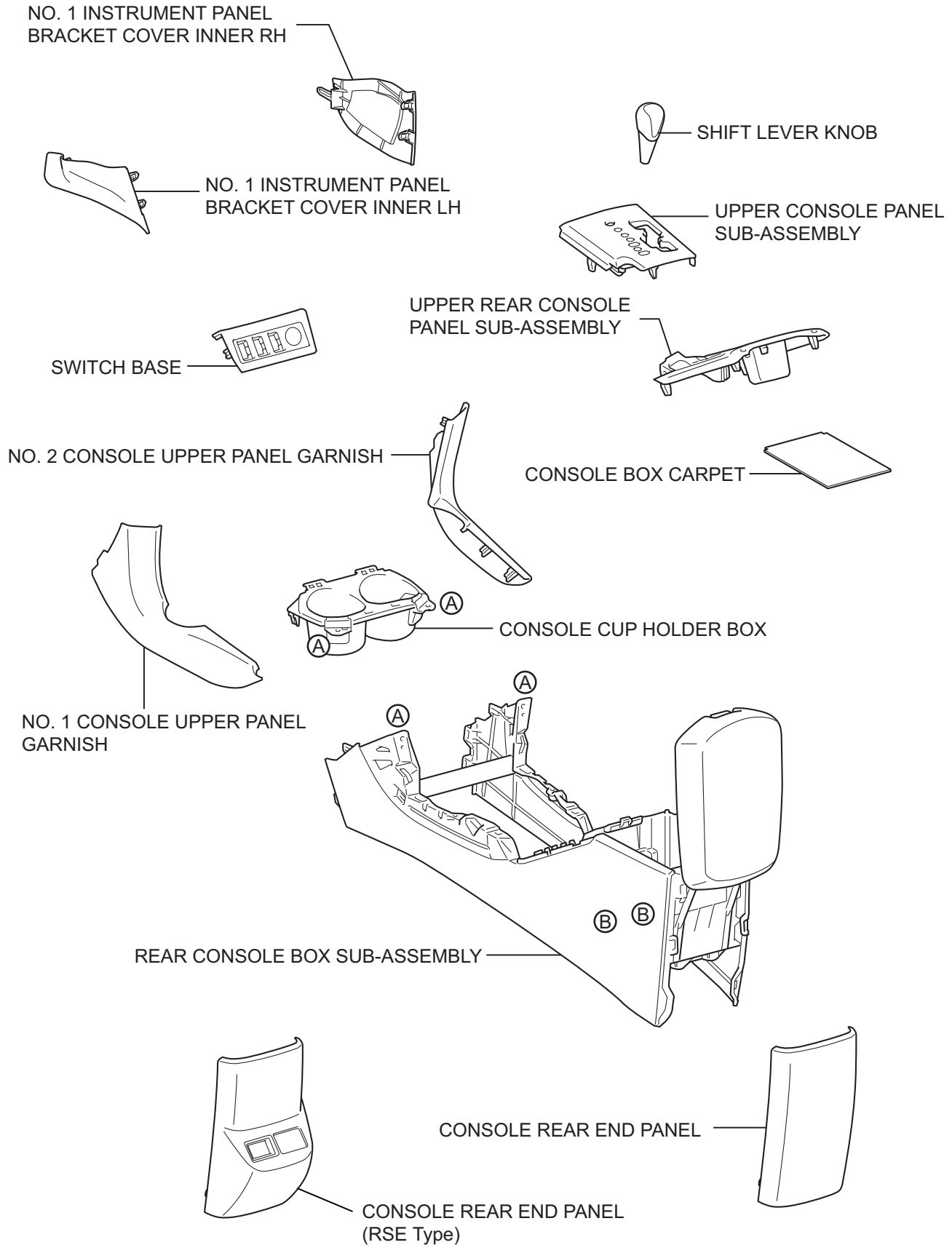
AIR CONDITIONING UNIT

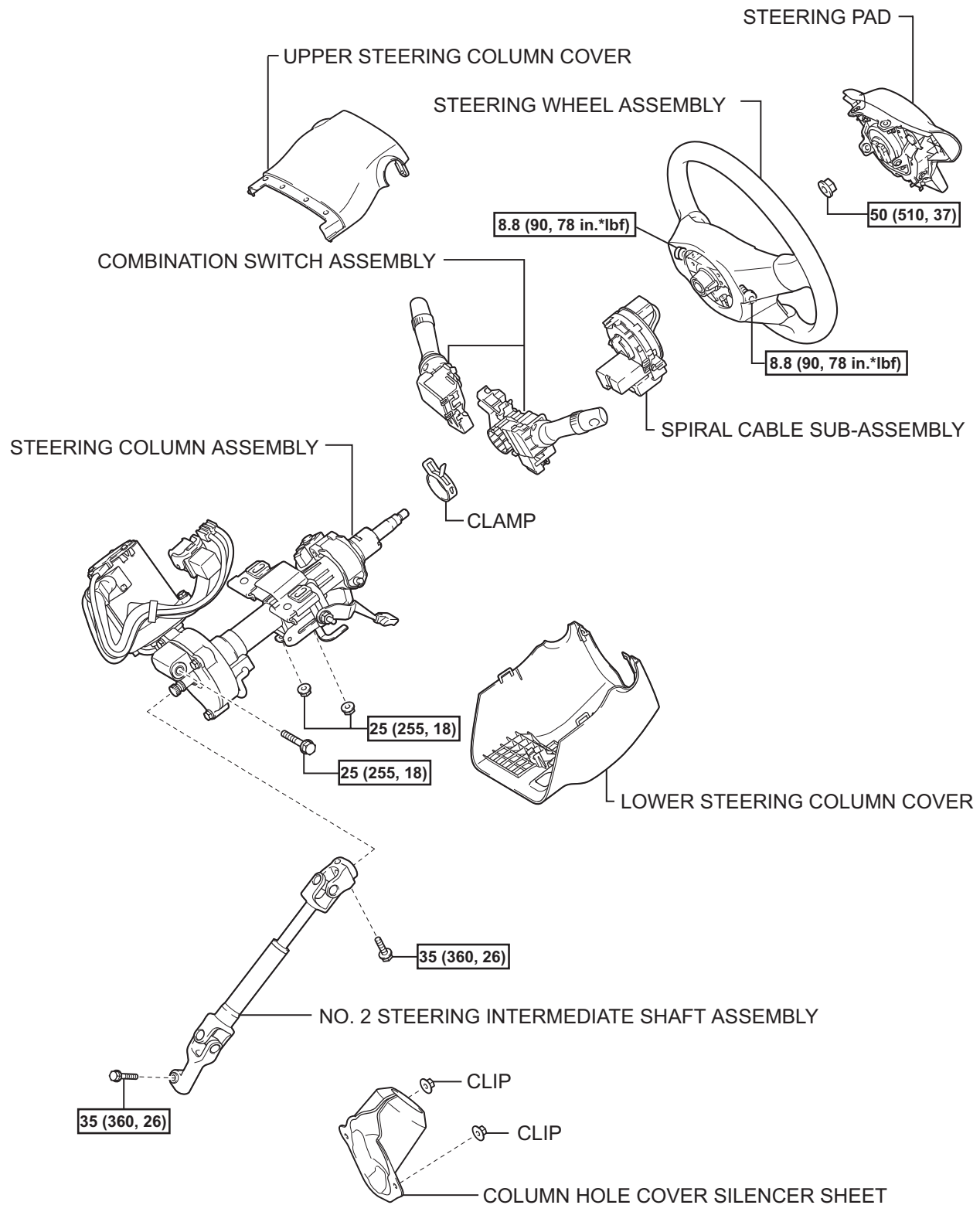
COMPONENTS





AC

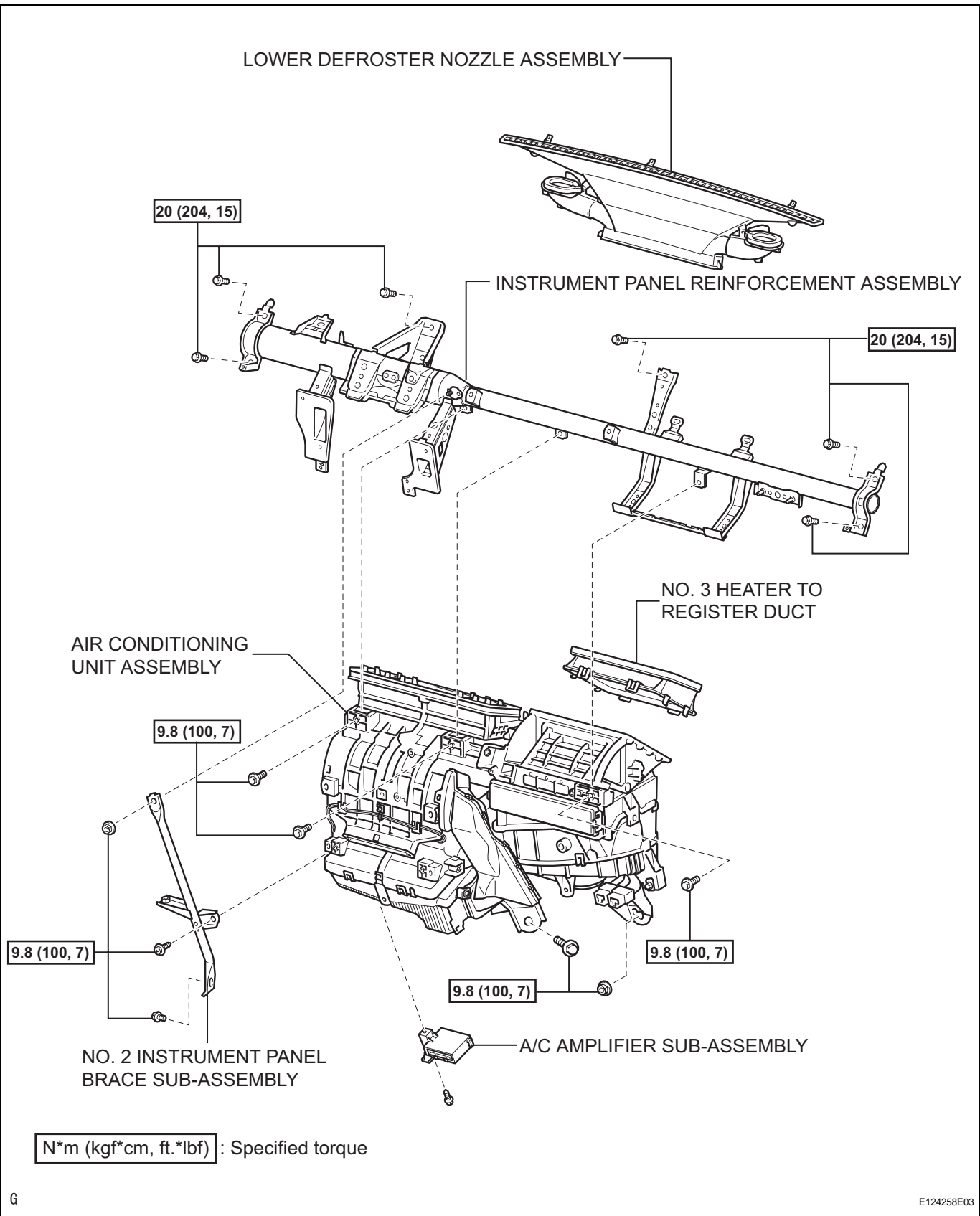


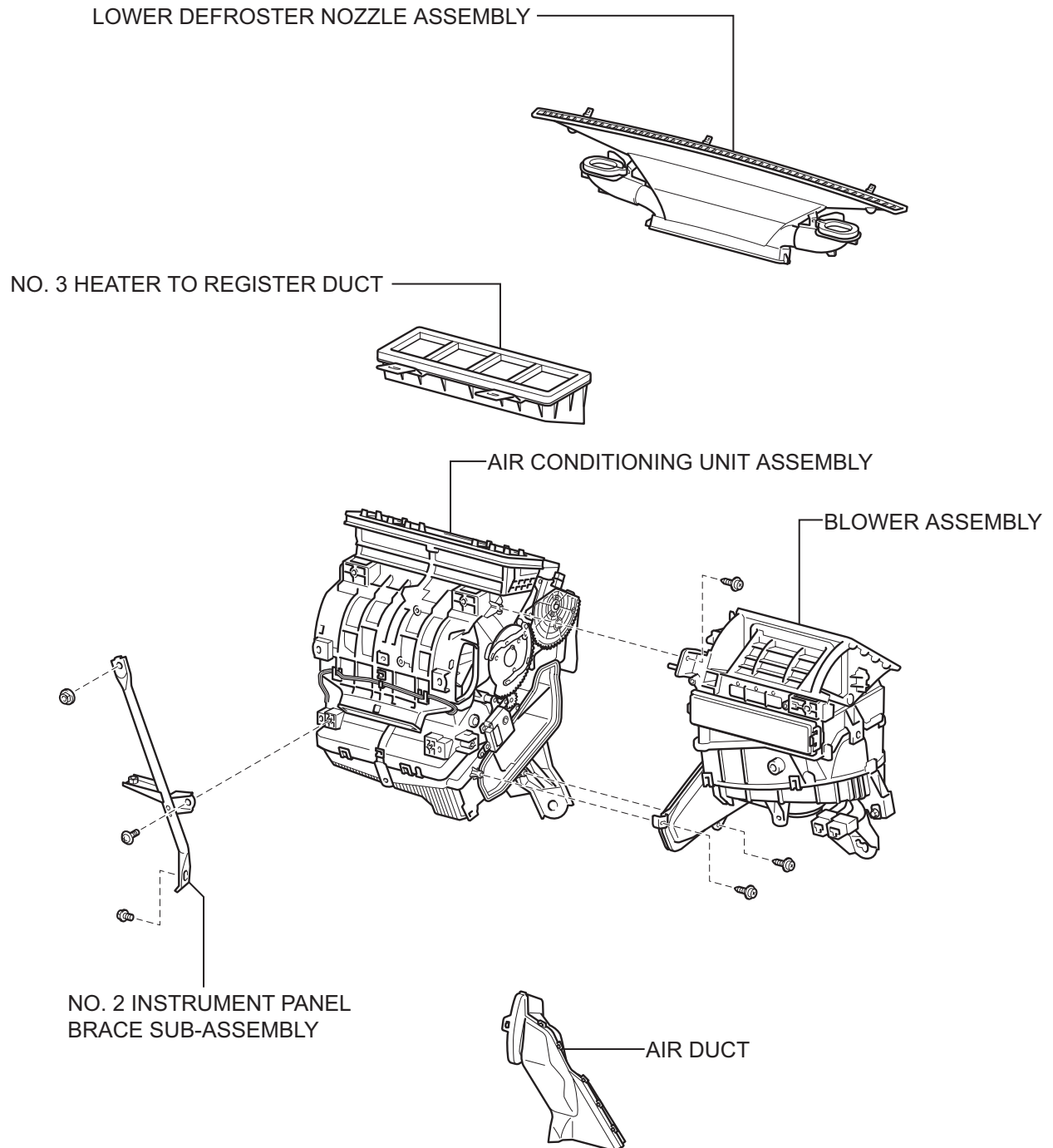


N*m (kgf*cm, ft.*lbf) : Specified torque

AC

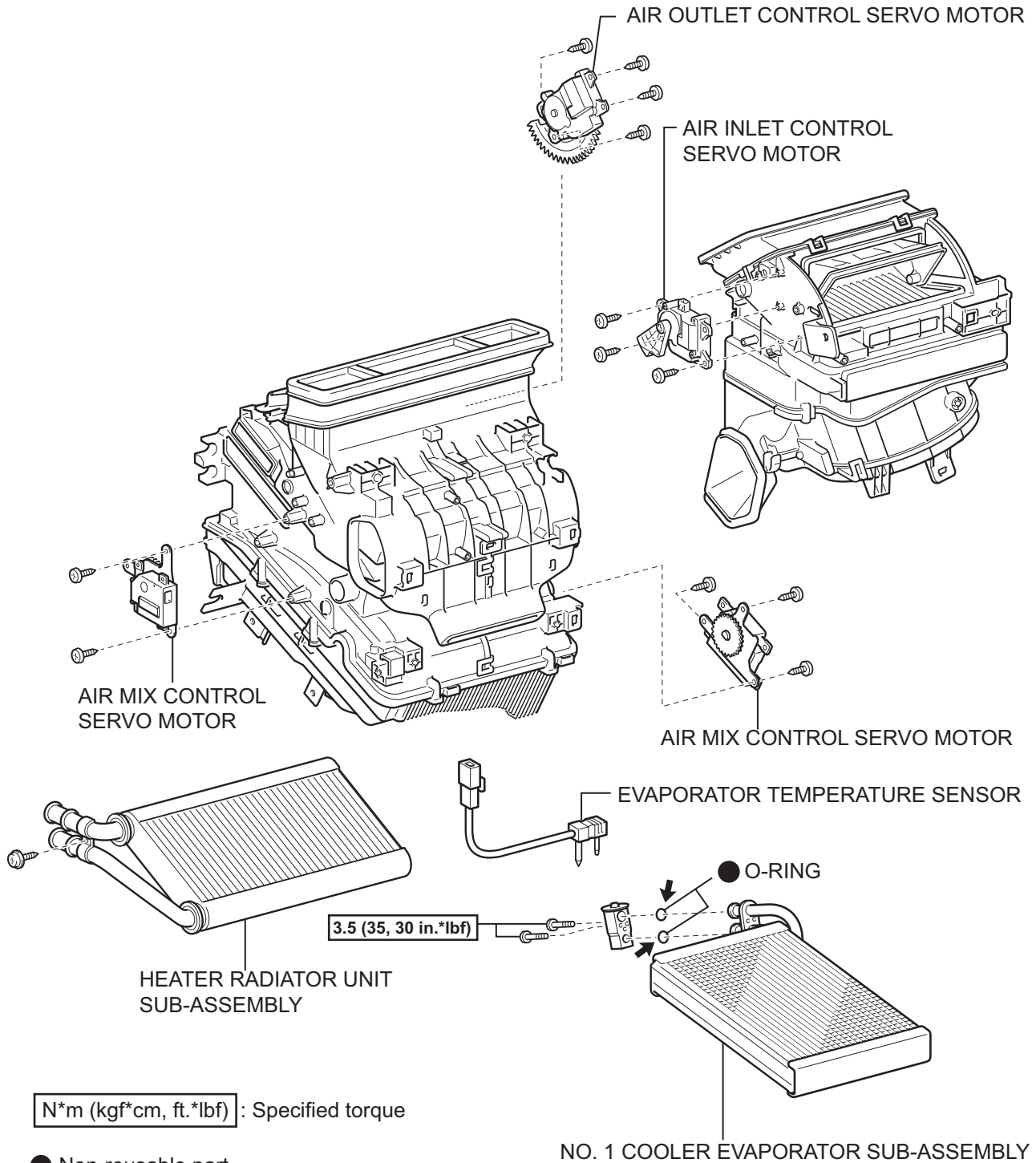
AC





AC

for Automatic Air Conditioning System

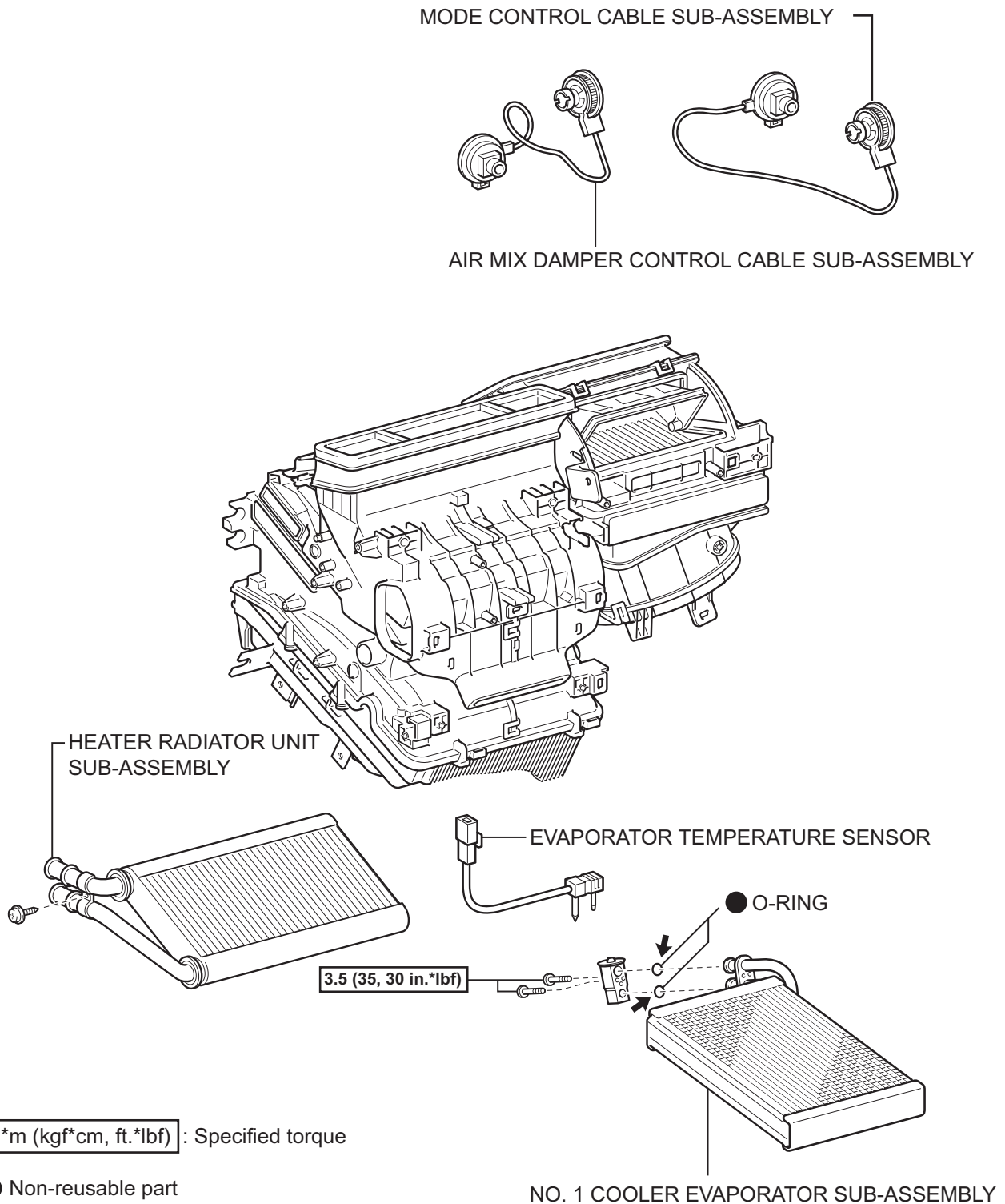


N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

← Compressor oil ND-OIL 8 or equivalent

for Manual Air Conditioning System



N*m (kgf*cm, ft.*lbf) : Specified torque

● Non-reusable part

← Compressor oil ND-OIL 8 or equivalent

REMOVAL

1. **DISCHARGE REFRIGERANT FROM REFRIGERATION SYSTEM** (See page [AC-172](#))
2. **DISCONNECT CABLE FROM NEGATIVE BATTERY TERMINAL**

CAUTION:

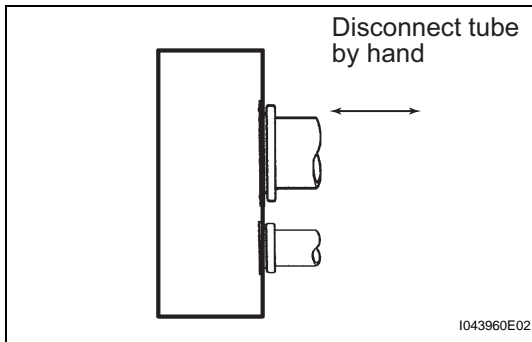
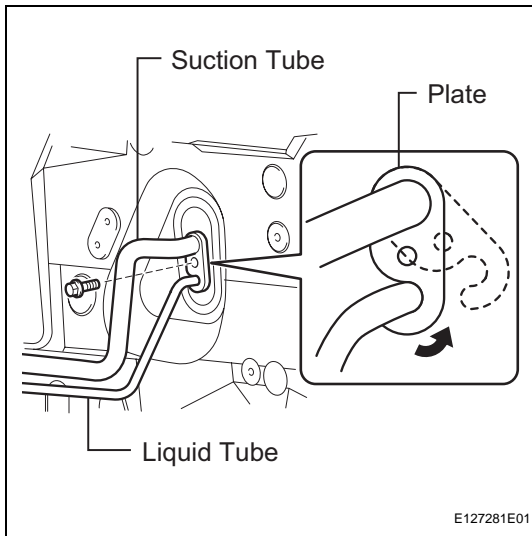
Wait at least 90 seconds after disconnecting the cable from the negative (-) battery terminal to prevent airbag and seat belt pretensioner activation.

3. **REMOVE TUBE SUB-ASSEMBLY**

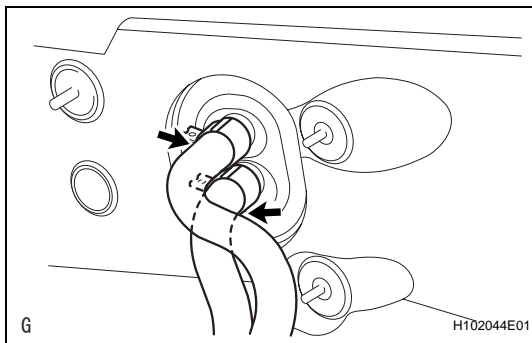
- (a) Remove the bolt.
- (b) Remove plate, as shown in the illustration.
- (c) Disconnect the suction tube and liquid tube.

NOTICE:

- Do not use a screwdriver or similar tool to disconnect the tube.



- Seal the opening of the disconnected parts using vinyl tape to prevent moisture and foreign matter from entering them.
- (d) Remove the 2 O-rings from the suction tube and liquid tube.

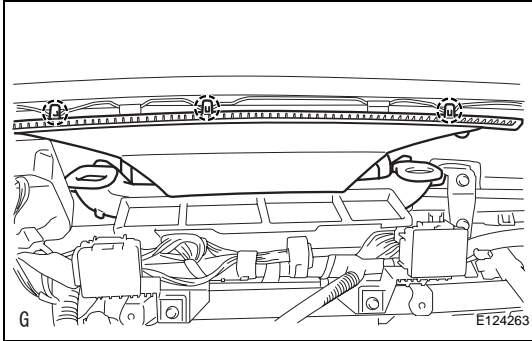


4. **DISCONNECT INLET HEATER WATER HOSE**
 - (a) Using pliers, grip the claws of the clip and slide the clip.
 - (b) Disconnect the heater water inlet hose.
5. **DISCONNECT OUTLET HEATER WATER HOSE**

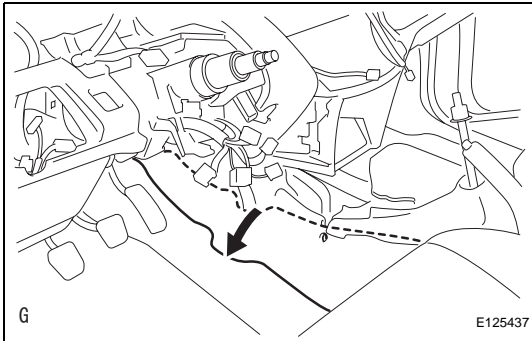
HINT:
Disconnection of the heater water outlet hose is the same as for the heater water inlet hose.
6. **REMOVE STEERING COLUMN ASSEMBLY**
 - (a) Remove the steering column (see page [SR-11](#)).
7. **REMOVE UPPER INSTRUMENT PANEL**
 - (a) Remove the upper instrument panel (see page [IP-4](#)).

8. REMOVE LOWER INSTRUMENT PANEL

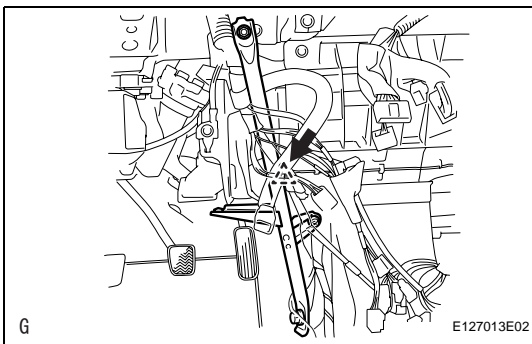
- (a) Remove the lower instrument panel (see page [IP-16](#)).

**9. REMOVE DEFROSTER NOZZLE ASSEMBLY**

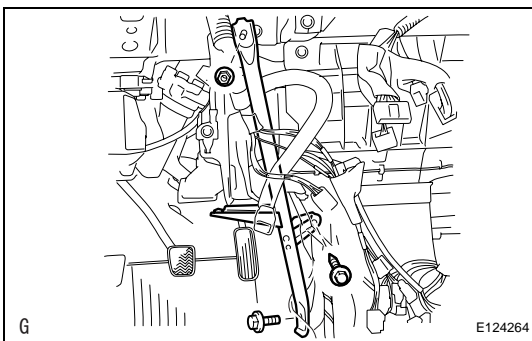
- (a) Detach the 3 claws and remove the defroster nozzle assembly.

**10. REMOVE NO. 1 INSTRUMENT PANEL BRACE SUB-ASSEMBLY**

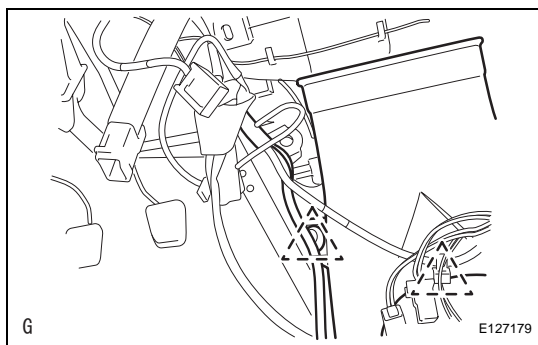
- (a) Fold the floor carpet back.



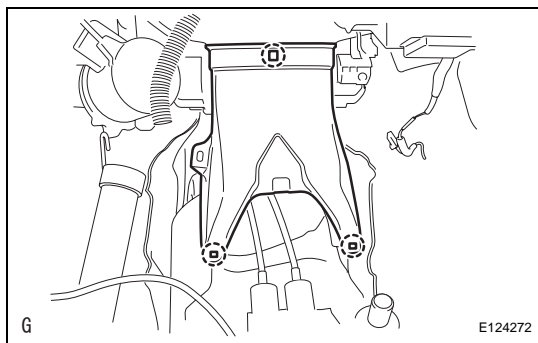
- (b) Disconnect the clamp and disconnect the wire harness.



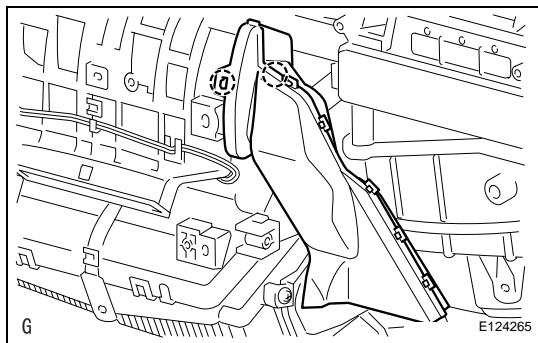
- (c) Remove the bolt, nut, screw, and instrument panel brace.

**11. REMOVE AIR DUCT REAR**

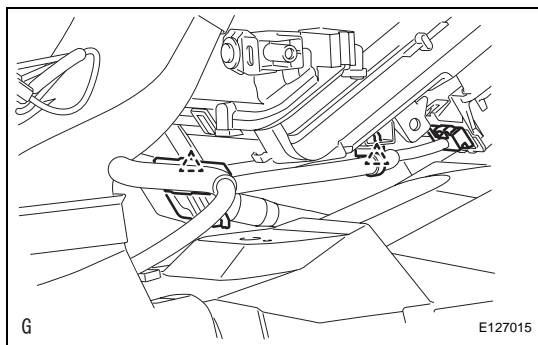
- (a) Disconnect the 2 clamps and disconnect the wire harness.



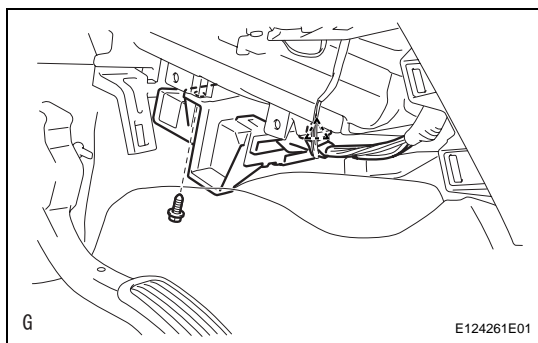
- (b) Detach the 3 claws and remove the air duct rear.

**12. REMOVE AIR DUCT**

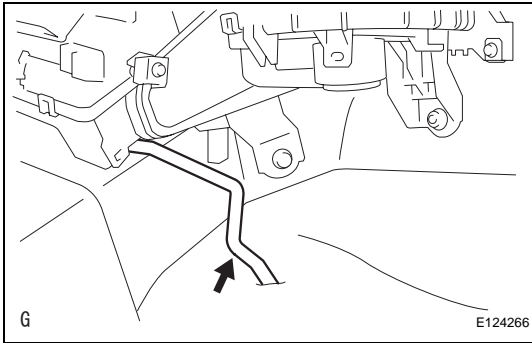
- (a) Detach the 2 claws and remove the air duct.

**13. REMOVE AIR CONDITIONING AMPLIFIER ASSEMBLY**

- (a) Detach the 2 clamps.
(b) Disconnect the connector.



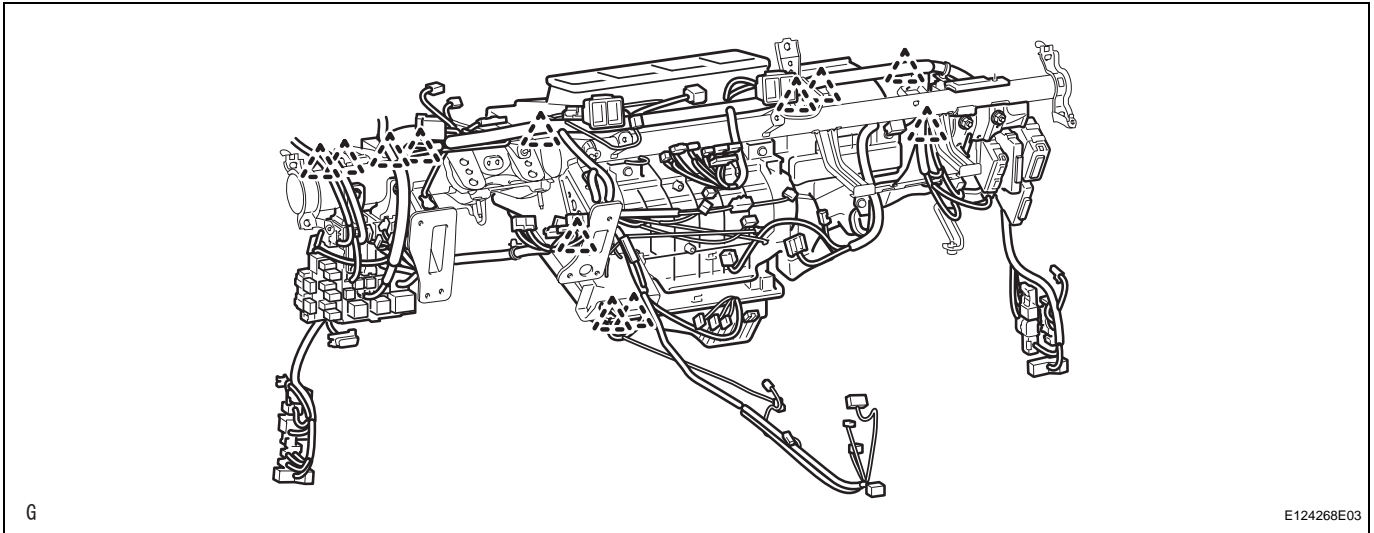
- (c) Remove the screw and amplifier.

**14. REMOVE DRAIN COOLER HOSE**

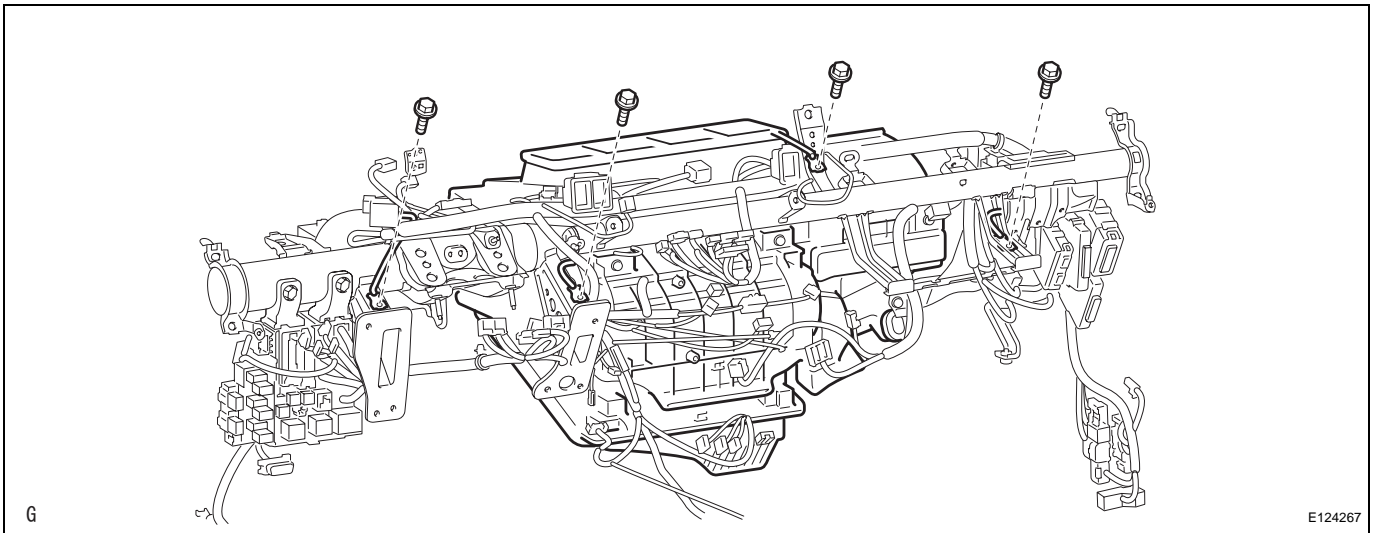
(a) Remove the drain hose.

15. REMOVE INSTRUMENT PANEL REINFORCEMENT

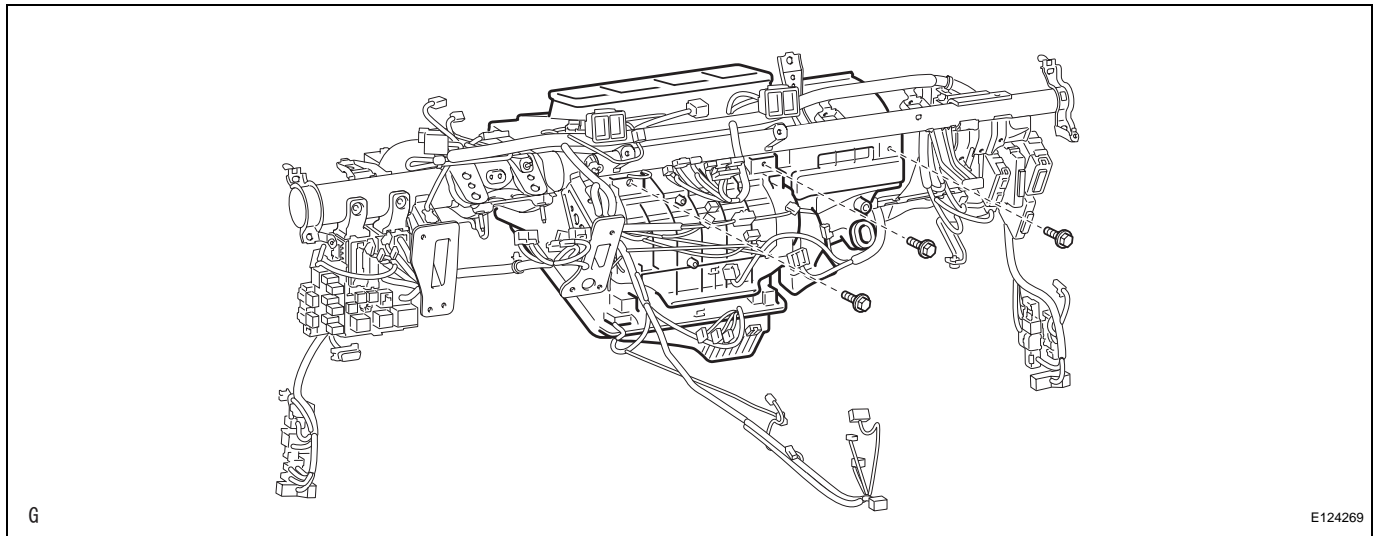
(a) Disconnect the 12 clamps.



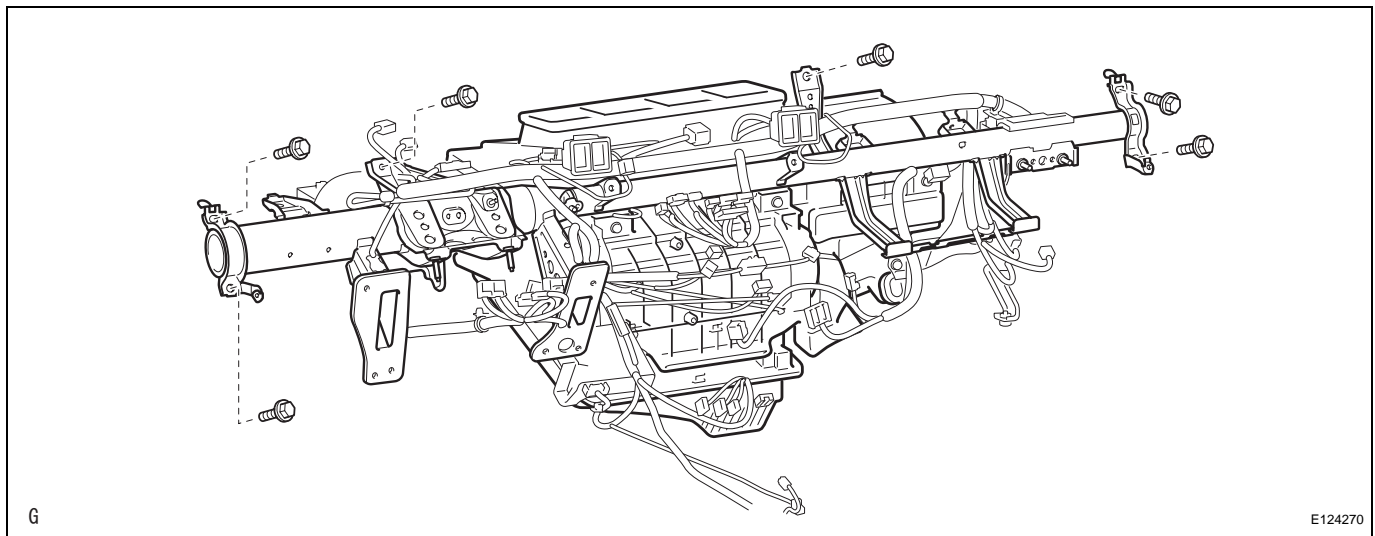
(b) Remove the 4 bolts and disconnect the ground wire.



(c) Remove the 3 bolts.



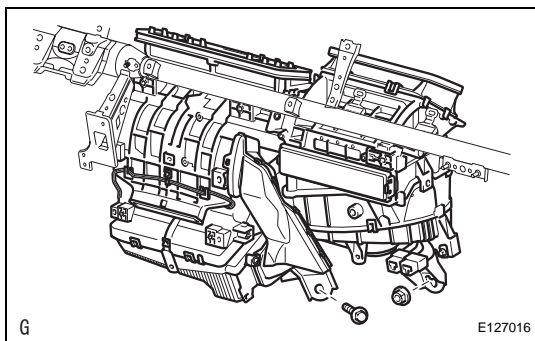
(d) Remove the 6 bolts and instrument panel reinforcement.



AC

16. REMOVE AIR CONDITIONER UNIT ASSEMBLY

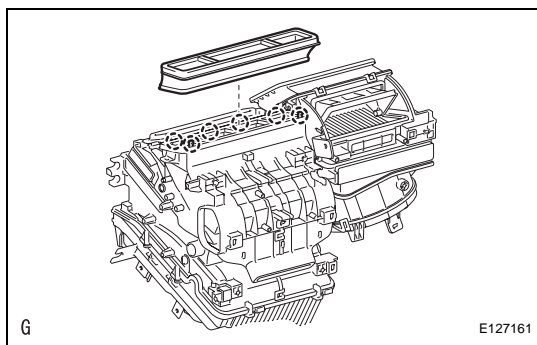
(a) Remove the bolt, nut and A/C unit.



DISASSEMBLY

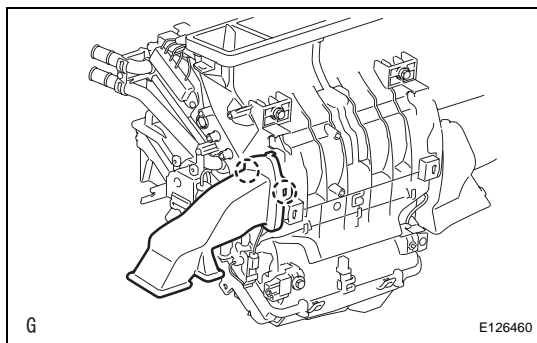
1. REMOVE NO. 3 HEATER TO REGISTER DUCT

- (a) Detach the 6 claws and remove the heater to register duct.



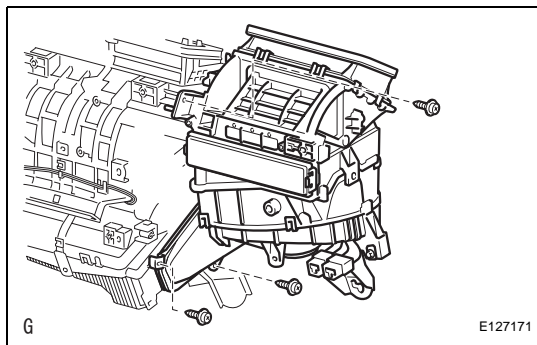
2. REMOVE AIR DUCT

- (a) Detach the 2 claws and remove the air duct.

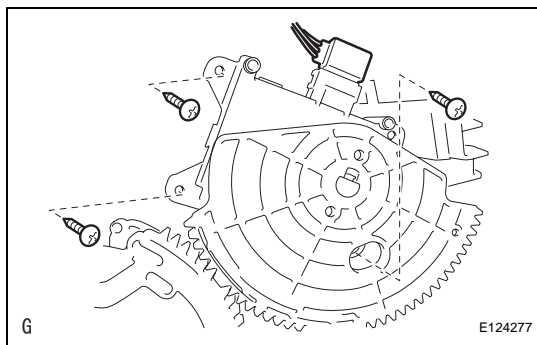


3. REMOVE AIR OUTLET CONTROL SERVO MOTOR

- (a) Remove the 3 screws.
- (b) Detach the evaporator case from the blower case.

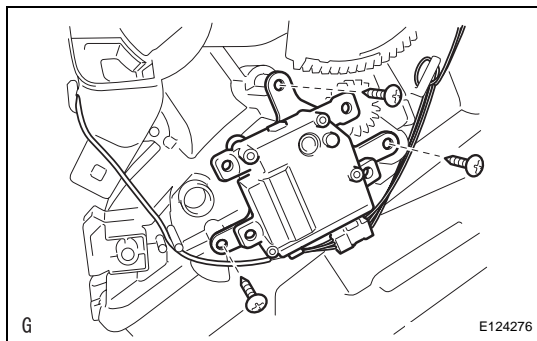


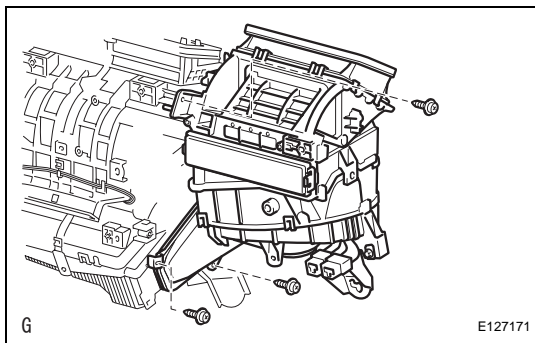
- (c) Remove the 3 screws and disconnect the connector.
- (d) Remove the air outlet control servo motor.



4. REMOVE AIR MIX CONTROL SERVO MOTOR

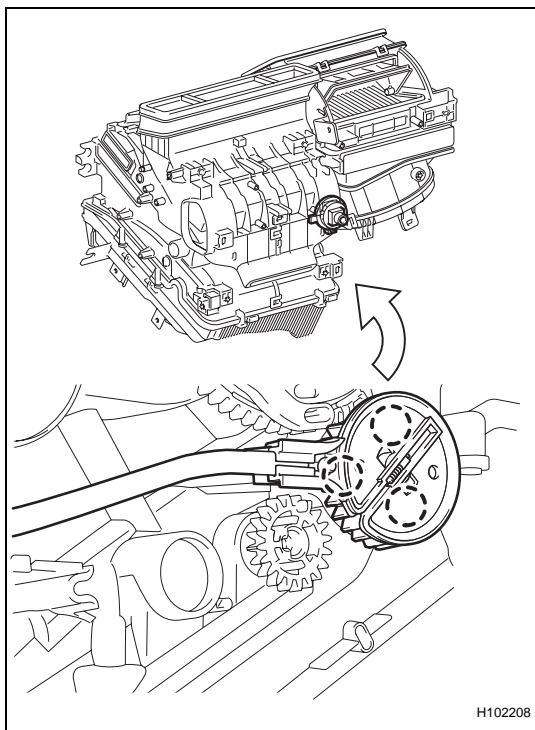
- (a) Remove the 3 screws and disconnect the connector.
- (b) Remove the air mix control servo motor.



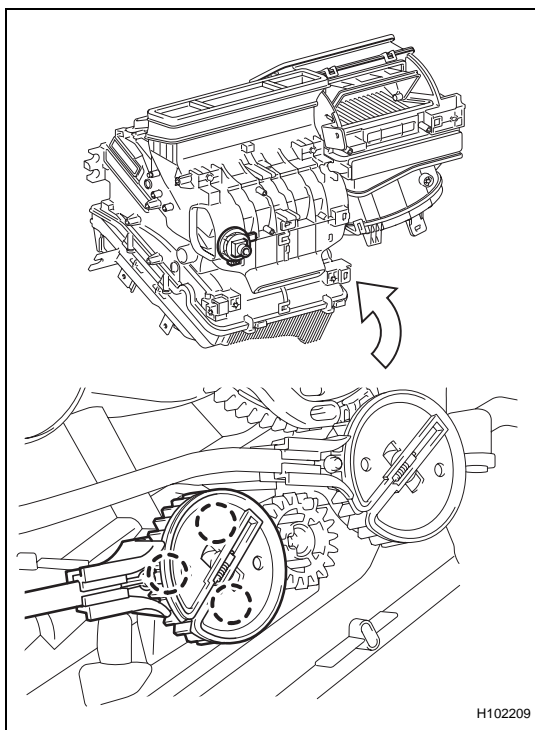


5. REMOVE MODE CONTROL CABLE ASSEMBLY (for Manual Air Conditioning System)

- (a) Remove the 3 screws.
- (b) Detach the evaporator case from the blower case.

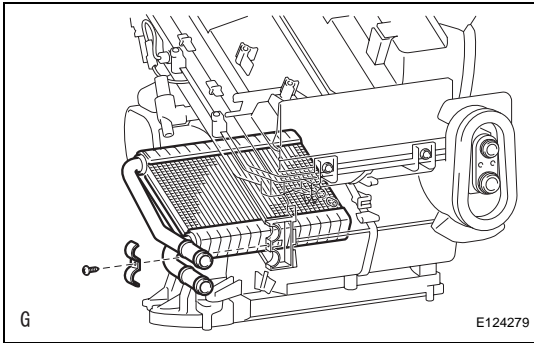


- (c) Detach the 3 claws and remove the cable.

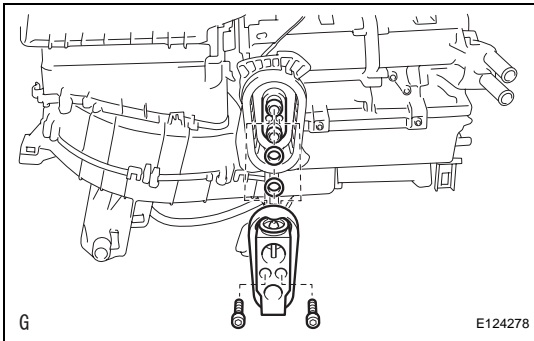


6. REPAIR AIRMIX DAMPER CONTROL CABLE SUB-ASSEMBLY (for Manual Air Conditioning System)

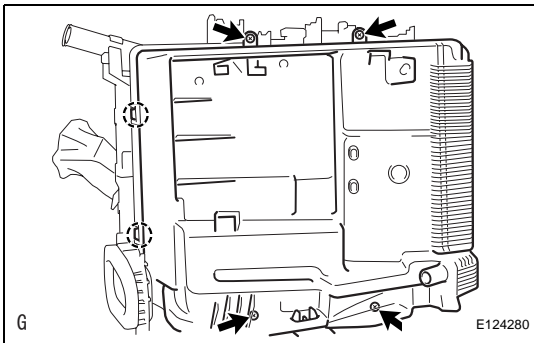
- (a) Detach the 3 claws and remove the cable.

**7. REMOVE HEATER RADIATOR UNIT SUB-ASSEMBLY**

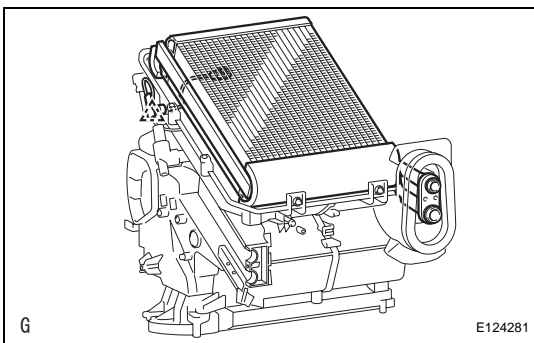
- (a) Detach the screw and remove the clamp.
- (b) Remove the heater radiator unit.

**8. REMOVE COOLER EXPANSION VALVE**

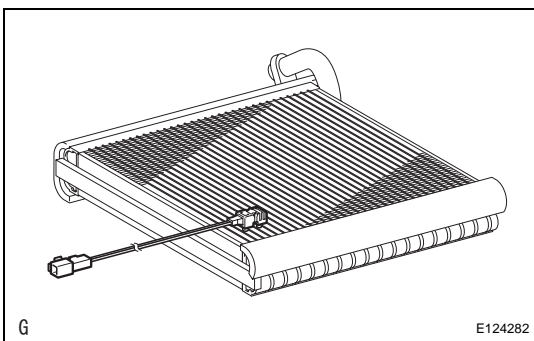
- (a) Using a 4 mm hexagon wrench, remove the 2 hexagon bolts.
- (b) Remove the cooler expansion valve and 2 O-rings from the cooler evaporator.

**9. REMOVE NO. 1 COOLER EVAPORATOR SUB-ASSEMBLY**

- (a) Remove the 4 screws.
- (b) Detach the 2 claws and remove the cover.



- (c) Detach the cooler thermistor clamp.
- (d) Remove the cooler thermistor and cooler evaporator from the case.

**10. REMOVE EVAPORATOR TEMPERATURE SENSOR**

- (a) Disconnect the cooler thermistor clamp from the cooler evaporator.

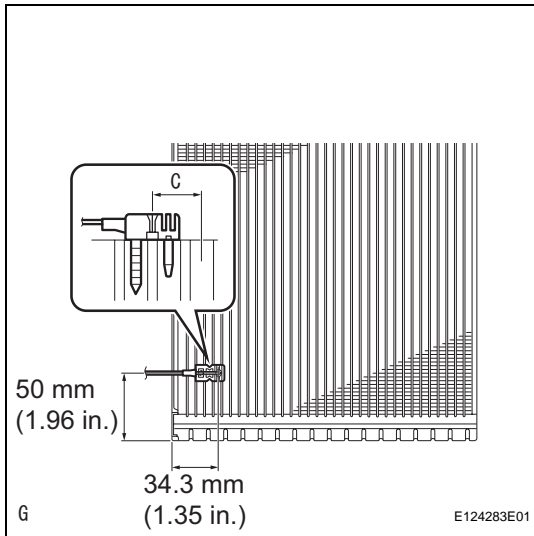
REASSEMBLY

1. INSTALL EVAPORATOR TEMPERATURE SENSOR

NOTICE:

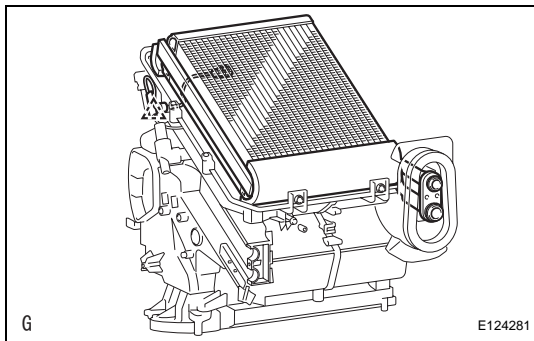
If reusing the evaporator, do not insert the sensor to a location where the sensor was previously inserted. Insert the sensor within range C shown in the illustration.

- (a) Install the evaporator temperature sensor as shown in the illustration.

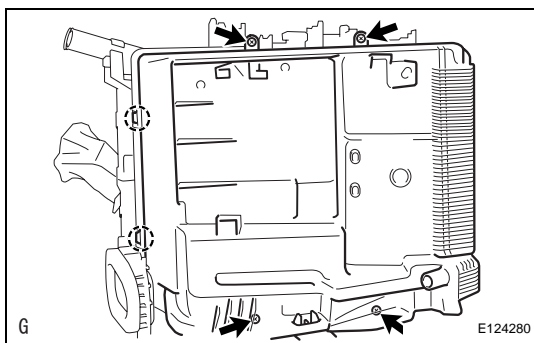


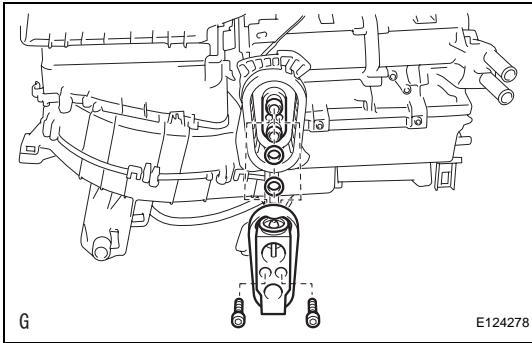
2. INSTALL NO. 1 COOLER EVAPORATOR SUB-ASSEMBLY

- (a) Install the cooler thermistor and cooler evaporator on the case.
(b) Attach the temperature sensor clamp.



- (c) Attach the 2 claws to install the cover.
(d) Install the 4 screws.



**3. INSTALL COOLER EXPANSION VALVE**

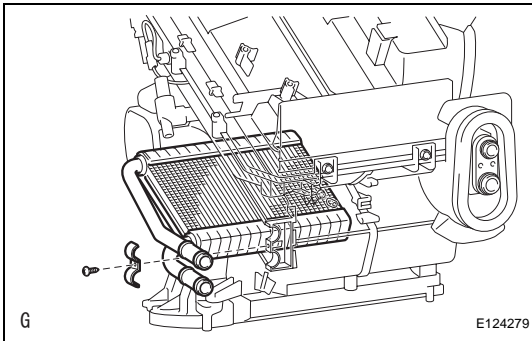
- (a) Sufficiently apply compressor oil to 2 new O-rings and the fitting surface of the hose joint.

Compressor oil:

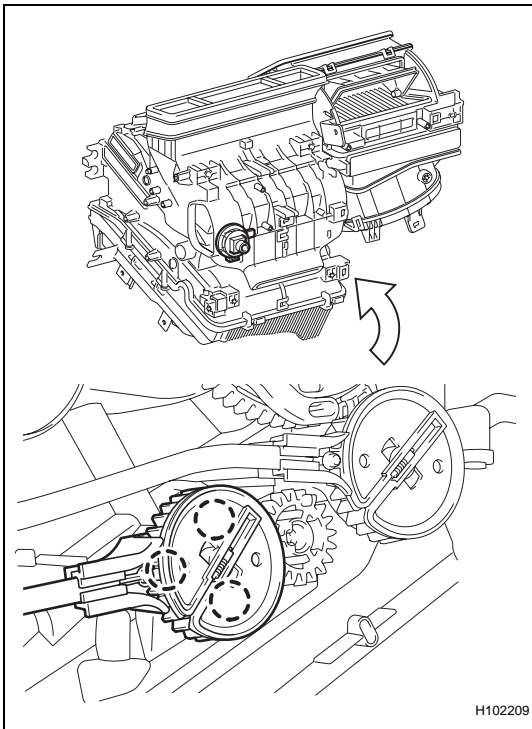
ND-OIL 8 or equivalent

- (b) Install the 2 O-rings to the cooler evaporator.
(c) Install the cooler expansion valve.
(d) Using a 4 mm hexagon wrench, install the A/C tube with the 2 hexagon bolts.

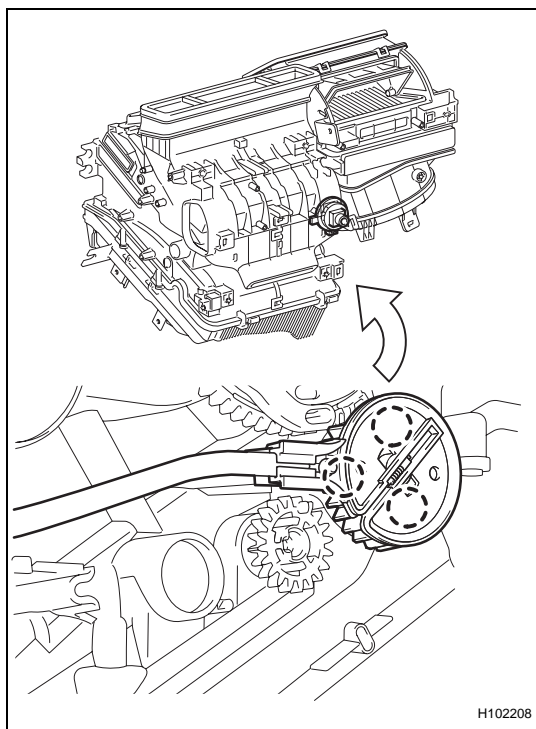
Torque: 3.5 N*m (35 kgf*cm, 30 in.*lbf)

**4. INSTALL HEATER RADIATOR UNIT SUB-ASSEMBLY**

- (a) Install the heater radiator with the clamp and screw.

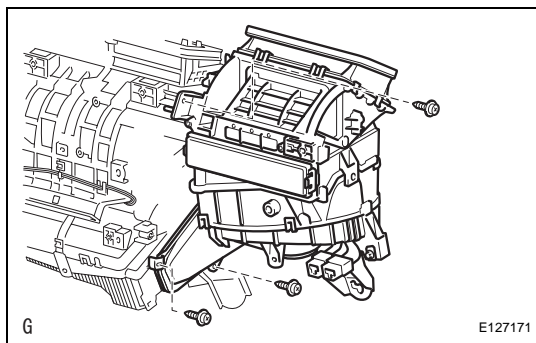
**5. INSTALL AIRMIX DAMPER CONTROL CABLE SUB-ASSEMBLY (for Manual Air Conditioning System)**

- (a) Attach the 3 claws to install the cable.



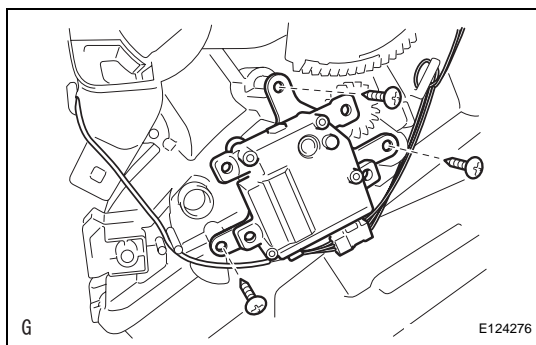
6. INSTALL MODE CONTROL CABLE ASSEMBLY (for Manual Air Conditioning System)

(a) Attach the 3 claws to install the cable.



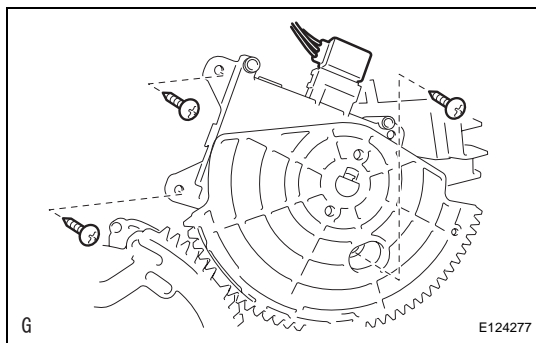
(b) Attach the evaporator case to the blower case.

(c) Install the cable with the 3 screws.



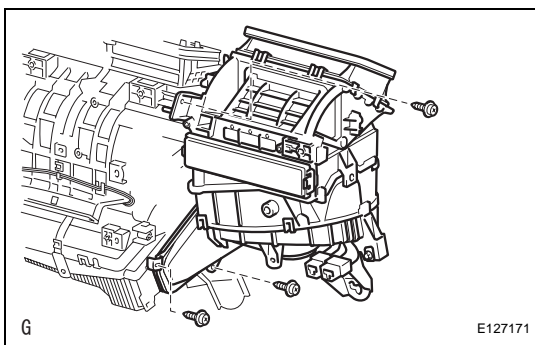
7. INSTALL AIR MIX CONTROL SERVO MOTOR

(a) Install the air mix control servo motor with the 3 screws and connect the connector.

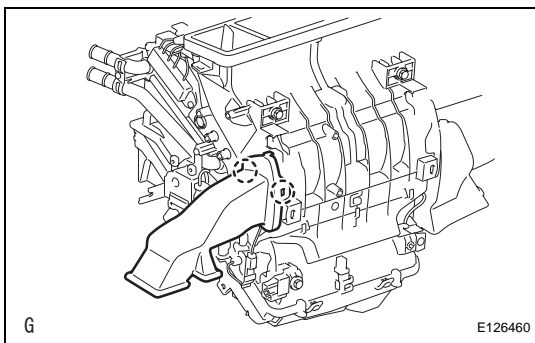


8. INSTALL AIR OUTLET CONTROL SERVO MOTOR

(a) Install the air outlet control servo motor with the 3 screws and connect the connector.

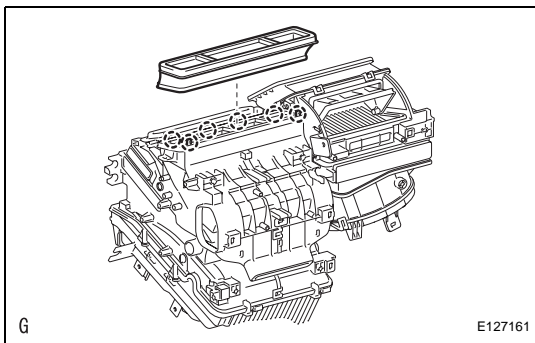


- (b) Attach the evaporator case to the blower case.
- (c) Install the 3 screws.



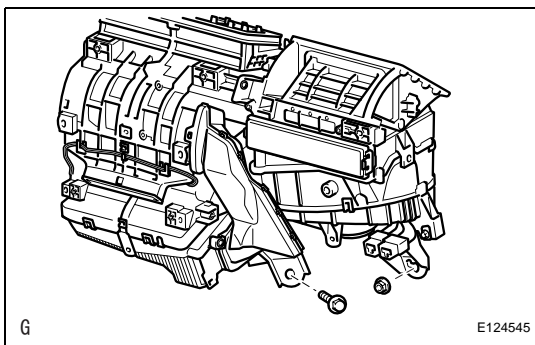
9. INSTALL AIR DUCT

- (a) Attach the 2 claws and install the air duct.



10. INSTALL NO. 3 HEATER TO REGISTER DUCT

- (a) Attach the 6 claws and install the heater to register duct.



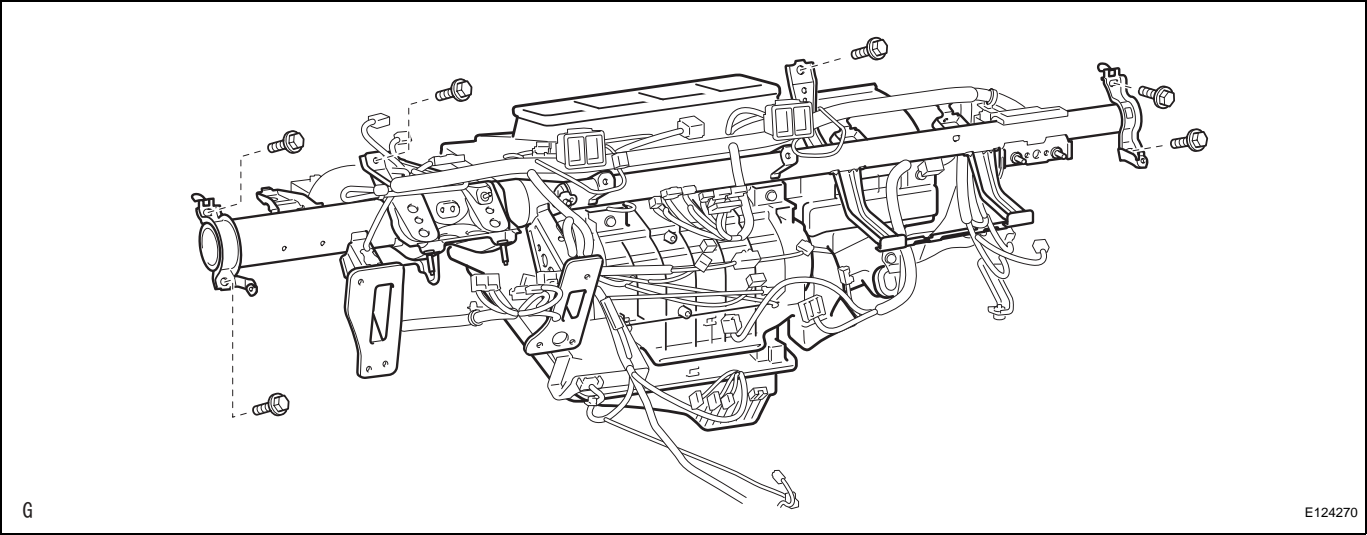
INSTALLATION

1. INSTALL AIR CONDITIONER UNIT ASSEMBLY

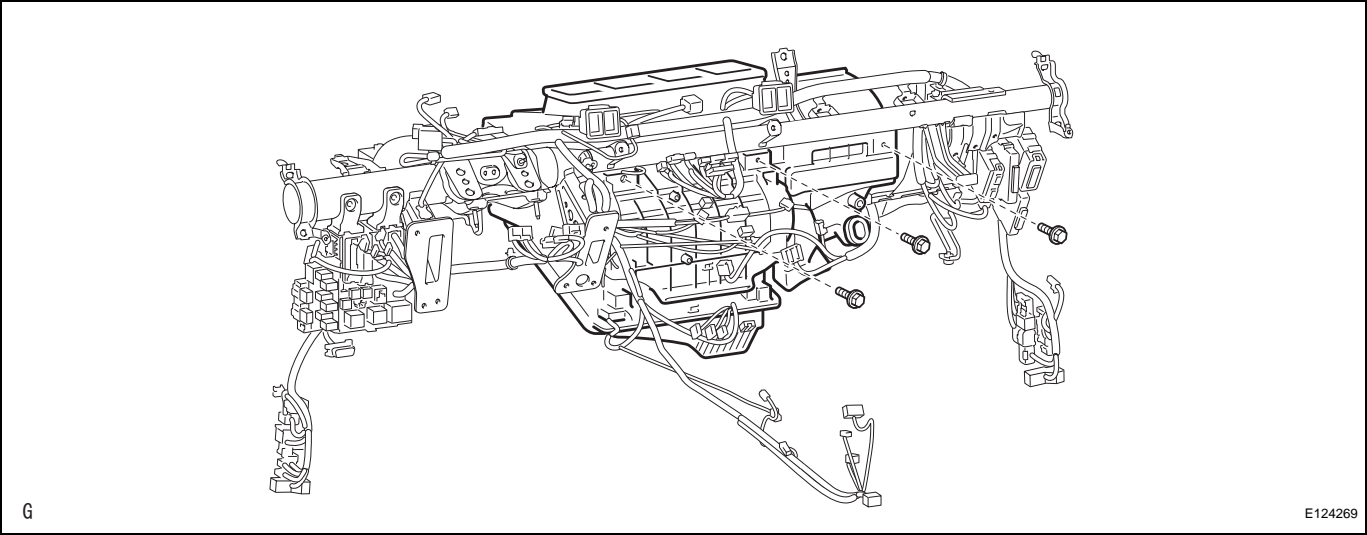
- (a) Install the A/C unit with the bolt and nut.
Torque: 9.8 N*m (100 kgf*cm, 7 ft.*lbf)

2. INSTALL INSTRUMENT PANEL REINFORCEMENT

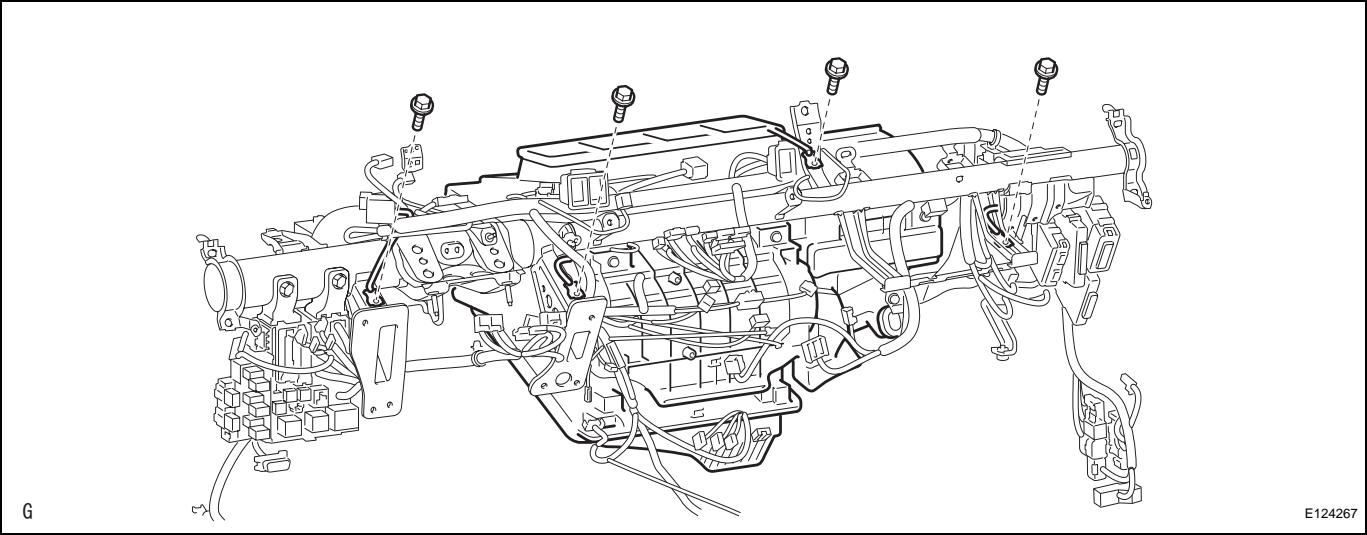
- (a) Install the instrument panel reinforcement with the 6 bolts.
Torque: 20 N*m (204 kgf*cm, 15 ft.*lbf)



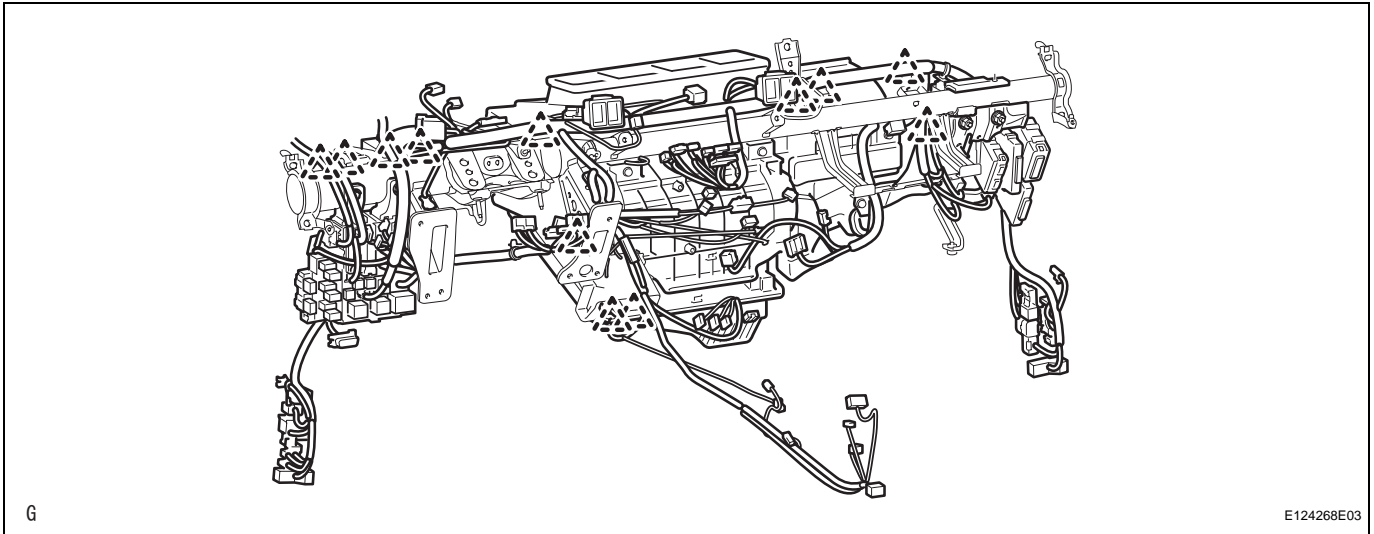
(b) Install the 3 bolts.
Torque: 9.8 N*m (100 kgf*cm, 7 ft.*lbf)



(c) Install the 4 bolts and connect the ground wire.

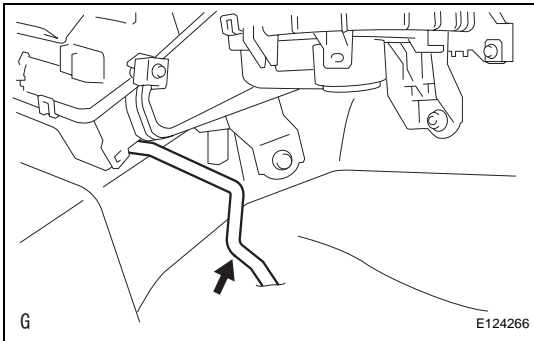


(d) Attach the 12 clamps.



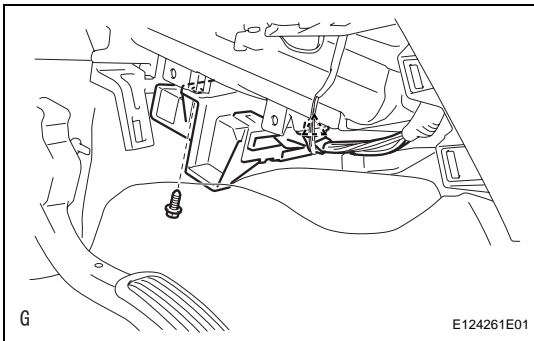
3. INSTALL DRAIN COOLER HOSE

(a) Install the drain hose.

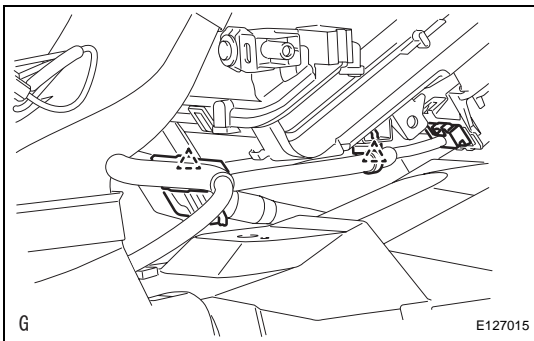


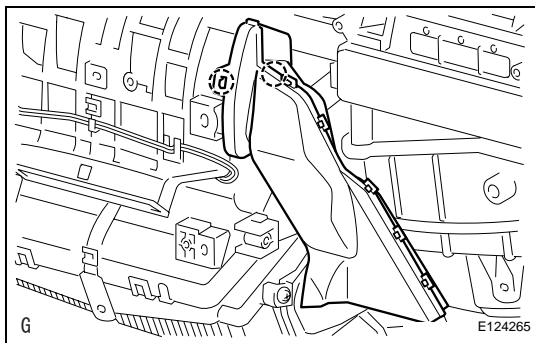
4. INSTALL AIR CONDITIONING AMPLIFIER ASSEMBLY

(a) Install the A/C amplifier with the screw.
(b) Connect the connector.

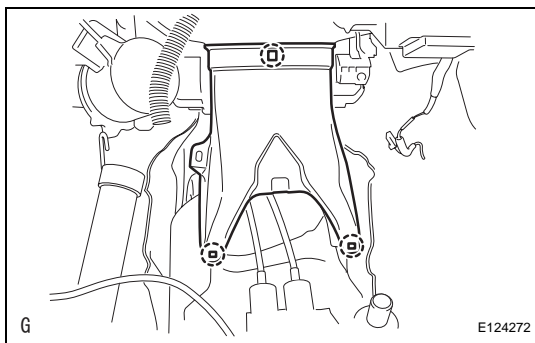


(c) Attach the 2 clamps to the amplifier.

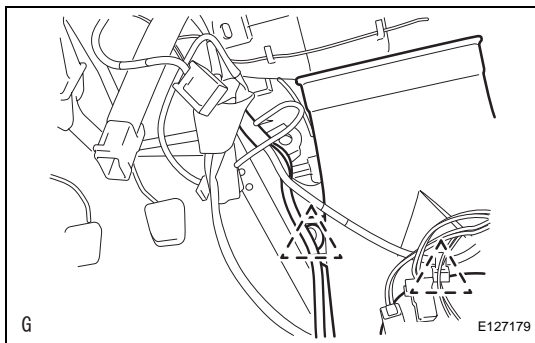


**5. INSTALL AIR DUCT**

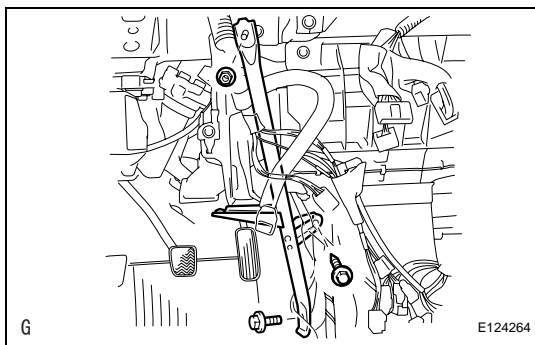
- (a) Attach the 2 claws and install the air duct.

**6. INSTALL REAR AIR DUCT**

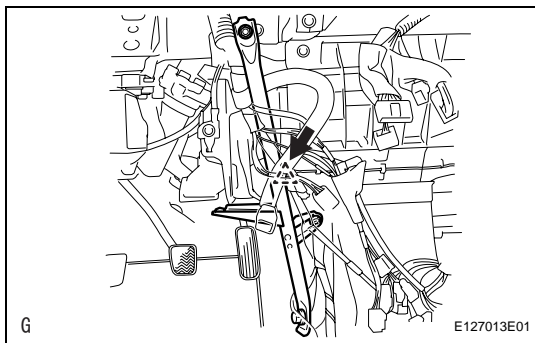
- (a) Attach the 3 claws and install the air duct rear.



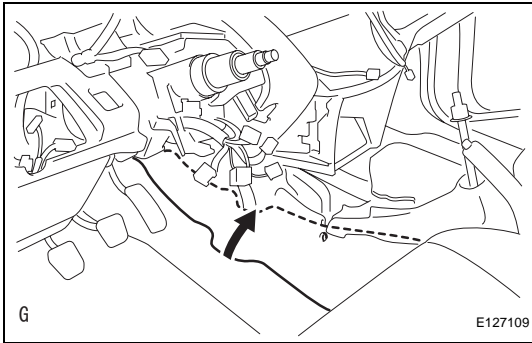
- (b) Attach the 2 clamps and install the wire harness.

**7. INSTALL NO. 1 INSTRUMENT PANEL BRACE SUB-ASSEMBLY**

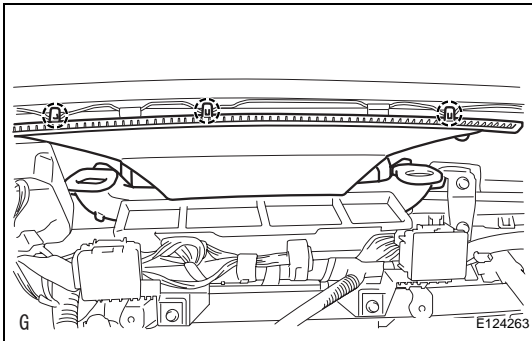
- (a) Install the instrument panel brace with the bolt, nut and screw.



- (b) Install the clamp and connect the wire harness.



(c) Reposition the floor carpet.



8. INSTALL DEFROSTER NOZZLE ASSEMBLY

(a) Attach the 3 claws and install the defroster nozzle assembly lower.

9. INSTALL LOWER INSTRUMENT PANEL

(a) Install the lower instrument panel (see page [IP-23](#)).

10. INSTALL UPPER INSTRUMENT PANEL

(a) Install the upper instrument panel (see page [IP-9](#)).

11. INSTALL STEERING COLUMN ASSEMBLY

(a) Install the steering column (see page [SR-19](#)).

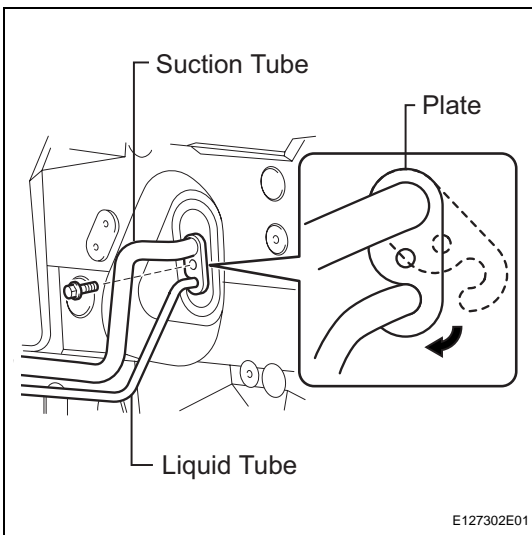
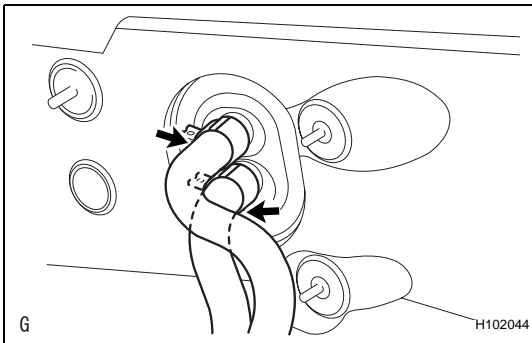
12. CONNECT HEATER WATER OUTLET HOSE

(a) Connect the water hose and attach the clip.

13. CONNECT HEATER WATER INLET HOSE

HINT:

Use the same procedures described for the water outlet hose.



14. CONNECT TUBE SUB-ASSEMBLY

(a) Remove the attached vinyl tape from the pipe.
(b) Sufficiently apply compressor oil to new 2 O-rings and the fitting surface of the suction tube and liquid tube.

Compressor oil:

ND-OIL 8 or equivalent

(c) Install the 2 O-rings on the suction tube and liquid tube.

(d) Connect the suction tube and liquid tube.

HINT:

After the connection, check that the claw of the piping clamp is engaged.

(e) Install the plate with the bolt.

Torque: 9.8 N*m (100 kgf*cm, 7 ft.*lbf)

15. CONNECT CABLE TO NEGATIVE BATTERY TERMINAL

16. CHECK SRS WARNING LIGHT

(a) Check the SRS warning light (see page [RS-37](#)).

17. REPLACE ENGINE COOLANT

Refer to the following procedures (see page [CO-6](#)).

18. CHARGE REFRIGERANT (See page [AC-172](#))**19. WARM UP ENGINE (See page [AC-173](#))****20. CHECK FOR ENGINE COOLANT LEAKS****21. CHECK FOR LEAKAGE OF REFRIGERANT (See page [AC-173](#))**